



#27-41
Amended
9-24-02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : Attn: BOX RCE
Mitsuaki OSHIMA et al. : Docket No.00177/MU-1296/P9558-04
Serial No. 09/244,037 : Group Art Unit 2634
Filed February 4, 1999 : Examiner A. Le
COMMUNICATION SYSTEM :

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AMENDMENT

Assistant Commissioner for Patents,
Washington, D.C.

THE COMMISSIONER IS AUTHORIZED
TO CHARGE ANY DEFICIENCY IN THE
FEES FOR THIS PAPER TO DEPOSIT
ACCOUNT NO. 23-0975

Sir:

Please amend the above-identified U.S. patent application as follows:

IN THE CLAIMS:

Please cancel all of the pending claims, i.e., claims 1, 8, 10, 22, 23, and 25-28. Please add new claims 29-38 as follows.

29. A signal transmission and reception apparatus for transmitting and receiving an n-level VSB signal, the apparatus comprising a transmission apparatus and a reception apparatus,

said transmission apparatus comprising:

a modulator operable to modulate an input signal into an n-level VSB modulated signal, and to allocate code points along a uniaxial modulation coordinate system, said modulator comprising a filter having a plurality of coefficients which are a series of impulse responses defined by plotting time base responses to the VSB modulated signal along an in-phase axis and an orthogonal axis for filtering a series of said code points allocated along the uniaxial modulation coordinate system, and

a transmitter operable to transmit the VSB modulated signal; and

said reception apparatus comprising:

a receiver unit operable to receive a transmitted n-level VSB modulated signal, and

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